METHODS AND APPARATUS FOR SELECTIVE DEMODULATION AND DECODING OF COMMUNICATIONS SIGNALS

ABSTRACT OF THE DISCLOSURE

5   A spread spectrum signal is processed by correlating the spread spectrum signal with a spreading sequence at a first plurality of correlation times to produce a first plurality of time-offset correlations. The first plurality of time-offset correlations is processed to produce a first symbol representation for a symbol. A first quality is determined for the first symbol representation. Responsive to the determined first

10   quality, it is determined whether to further process the first symbol representation or to process a second symbol representation for the symbol generated from the spread spectrum signal. The first quality may be determined, for example, by decoding the first symbol representations to generate a decoding metric or error check indicator, such as a CRC result. The symbol representations may be generated and/or evaluated

15   for quality in a serial fashion or a parallel fashion.